X-ray Statistics for cycle starting on 9 October 2005

Operations

Scheduled operations	504	[hr]
Expected number of scheduled fills	45	
Fills completed as scheduled (start and finish)	35	
Anticipated Fill Budget (45 min. per fill)	34	[hr]
Anticipated Operating Beam Available	470	[hr]
Total fill time during scheduled operations	29	[hr]
Delivered beam during scheduled operations	469.4	[hr]
Total beam available (including unscheduled ops)	562.6	[hr]

Disruption Statistics over consolidated operating hours

Number of disruptions	6	
Total lost operations time	5.6	[hr]
Average time between disruptions	72.0	[hr]
Minimum time between disruptions	11.2	[hr]
Maximum time between disruptions	138.0	[hr]
Standard Deviation	51.8	[hr]

UV Statistics for cycle starting on 09 October 2005

Operations

Scheduled operations	560	[hr]
Expected number of scheduled fills	162	
Fills completed as scheduled (start and finish)	149	
Anticipated Fill Budget (5 min. per fill)	13.5	[hr]
Anticipated Operating Beam Available	546.5	[hr]
Total fill time during scheduled operations	14.4	[hr]
Delivered beam during scheduled operations	529.5	[hr]
Total beam available (including unscheduled ops)	599.7	[hr]

Disruption Statistics over consolidated operating hours

Number of disruptions	8	
Total lost operations time	16.5	[hr]
Average time between disruptions	93.3	[hr]
Minimum time between disruptions	2.6	[hr]
Maximum time between disruptions	223.7	[hr]
Standard Deviation	73.7	[hr]

Summary for Cycle starting 9 October 2005

Fill Statistics	XA	UA	XB	UB	XC	UC	XD	UD	XA	UA
Cycle Starting 9 October 2005	9 Oct		16 Oct		23 Oct		30 Oct		Cycle Ave	
Planned number of User Fills	14	47	11	37	11	47	9	31	11.3	40.5
Total Number of User Fills	15	48	10	32	12	45	9	32	11.5	39.3
Fills to scheduled completion	12	46	5	26	9	45	9	32	8.75	37.3
Dumps during Operations	1	3	3	1	2	0	0	1	1.5	1.25
Average Time between Faults [hr]	104		30.4		79.6		168		95.6	
Faults Requiring Repairs	0		2		1		0		0.75	
Average Time to Recover [min]	24		69		31		0		31	
Average User Fill Time [min]	42.6		38.1		37.4		30.1		37	

Note: Average time between faults calculated on weekly basis. By convention a no fault week can have no more than 168 hours between faults.

Fault Abstract for Cycle starting 9 October 2005

Week				Cycle	Category
10/9	10/16	10/23	10/30	Total	
0.2	15.9	0.3	0.13	16.5	VUV Downtime
1	0.92	1.16	0	3.1	X-Ray Downtime
16.8	43.72	1.67	2.11	64.3	Equipment Downtime

X-ray DT				Total	Type of Problem
		0.24		0.24	RF Trip
0.45				0.45	AI Trim Ramp
0.15				0.15	Drop out during X17 Ramp
		0.92		0.9	X-25 AI Checks
0.4	0.92			1.32	Power Dip
1	0.92	1.16	0	**3.08**	

VUV DT				Total	Type of Problem
	0.24	0.3	0.13	0.67	URF1 Fault
0.17	0.43			0.6	Power Dip
	15.3			15.3	Electron Gun replacement (time below 150 mA)
0.17	15.9	0.3	0.13	**16.5**	

n.b. All times in hours